

DOCKING DEVICE CLASS CIRCUIT

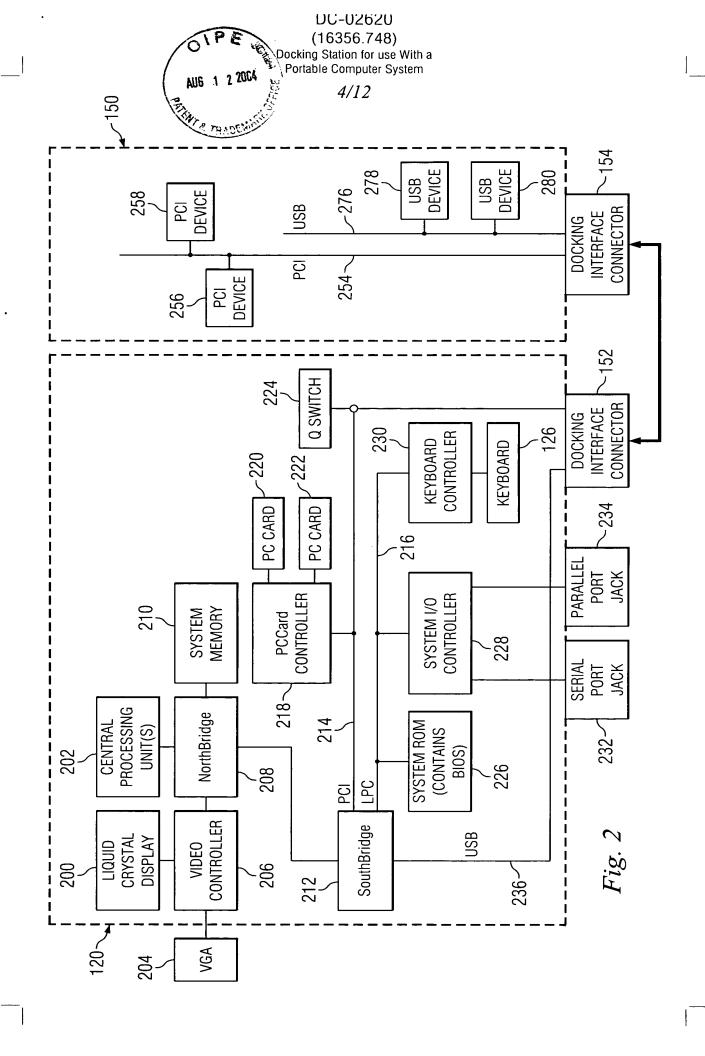
THE DOCKING DEVICE CLASS CIRCUIT IS A DEVICE (1) WHICH WILL INTERFACE AND FUNCTION WITH A BUS FOR WHICH WELL KNOWN STANDARDS (EITHER DE FACTO OR DE JURE) ARE DEFINED (e.g., USB, PCI, AT, ETC.), AND (2) WHICH CONTAINS WITHIN IT INFORMATION WHICH DEFINES THE AT LEAST ONE SUBSET OF THE "UNIVERSE" OF A DOCKING STATION OF WHICH IT (THE DOCKING DEVICE CLASS CIRCUIT) FORMS A PART, (3) WHICH WILL THEREBY ALLOW IDENTIFICATION AND/OR CONTROL OF THE ONE OR MORE DATA PROCESSING SYSTEM COMPONENTS WHICH MAKE UP AT LEAST ONE SUBSET OF THE UNIVERSE OF THE DOCKING STATION VIA USE OF WELL KNOWN AND WELL-DEFINED FUNCTIONS ASSOCIATED WITH THE BUS WITH WHICH THE DOCKING DEVICE CLASS CIRCUIT IS INTERFACED. THE "UNIVERSE" OF THE DOCKING STATION CAN INCLUDE AD HOC HARDWARE AND SOFTWARE WITHIN THE DOCKING STATION (e.g., A DOCKING-STATION HARD-DRIVE ACCESS LED AND SWITCH/UNDOCK BUTTON), THE BUS STRUCTURES AND ASSOCIATED DEVICES IN THE DOCKING STATION, AND/OR THE POWER SUPPLY TYPES AND/OR VOLTAGES WITHIN THE DOCKING STATION

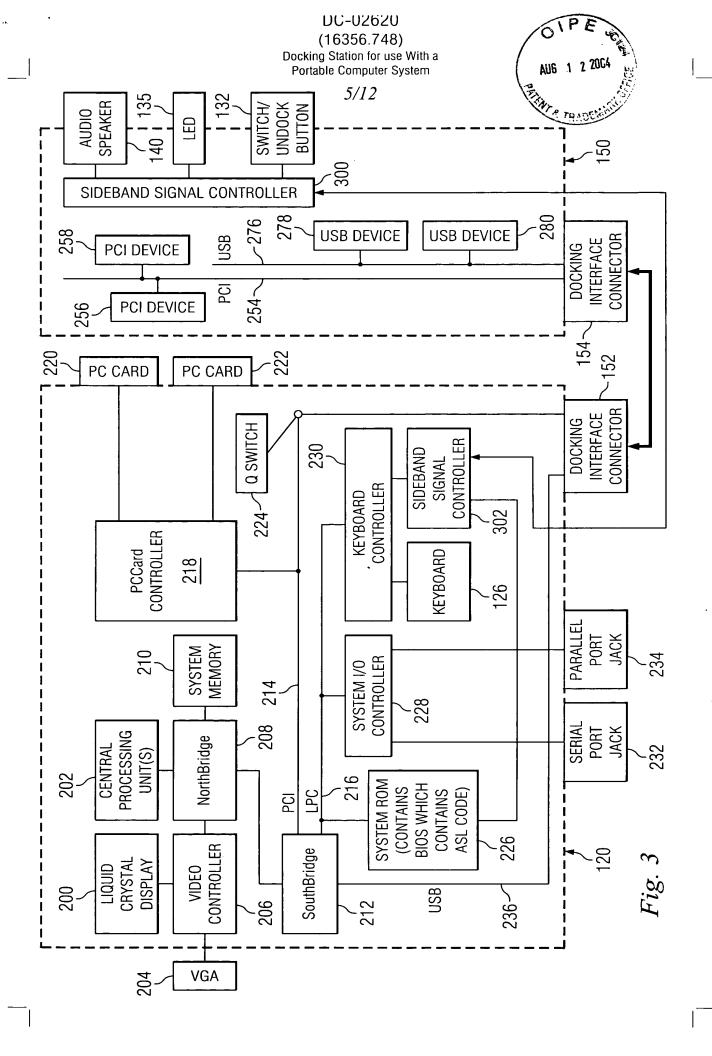
700

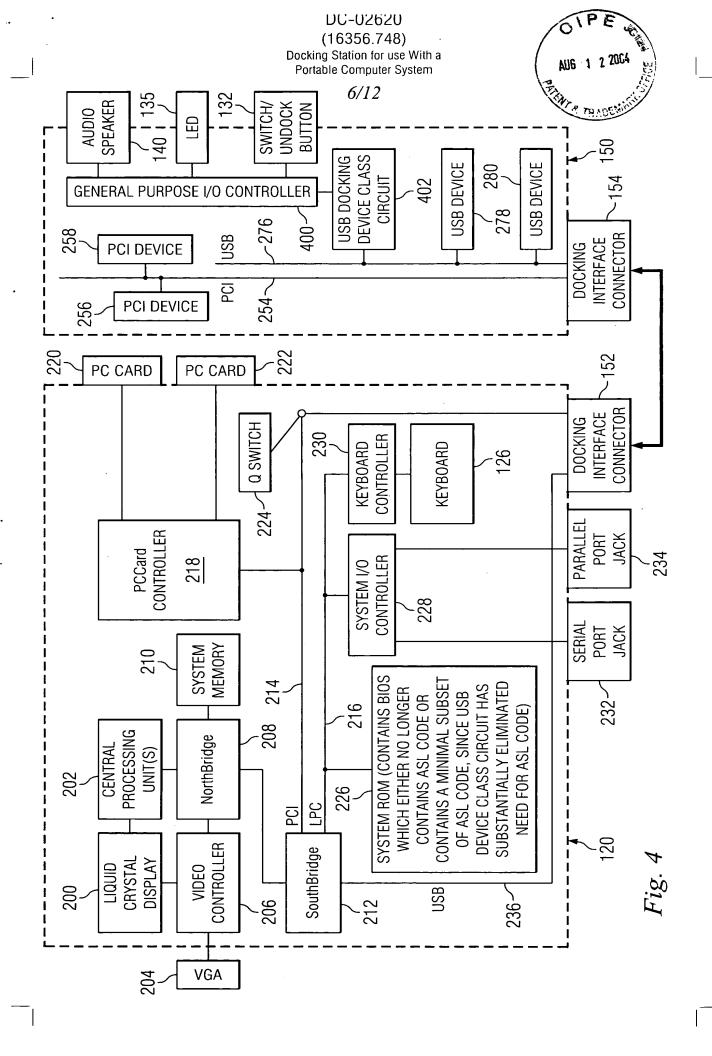
BUS OF KNOWN TYPE, FOR WHICH WELL-DEFINED STANDARDS EXIST. FOR EXAMPLE, USB, PCI, AT, ETC

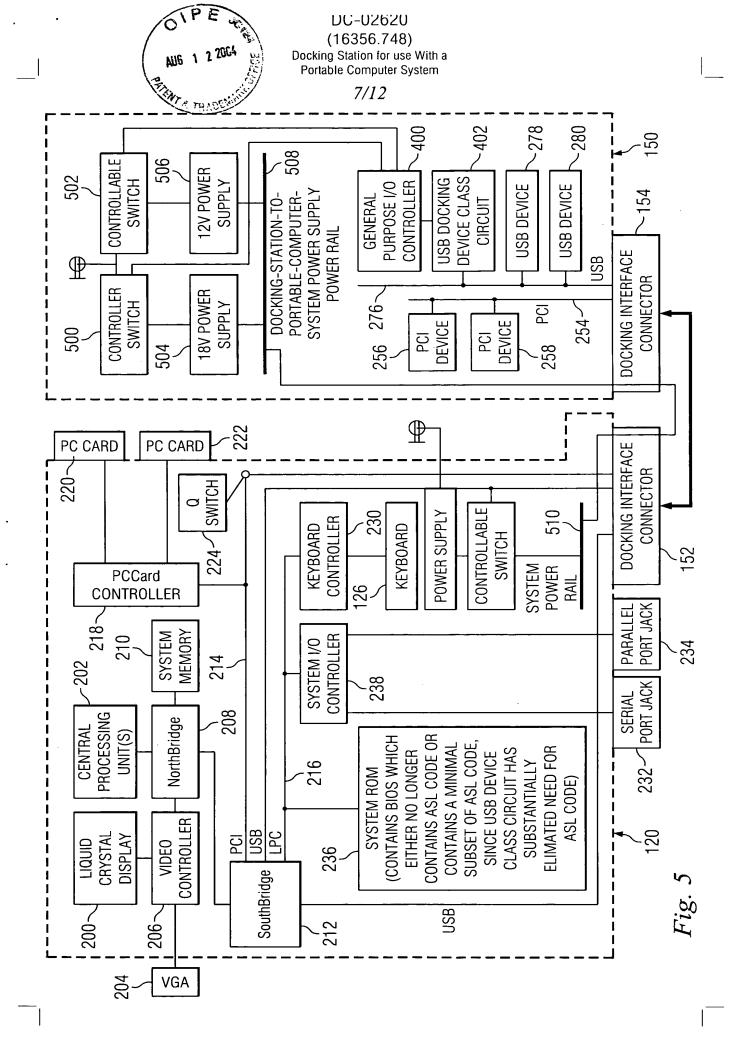
154 DOCKING INTERFACE CONNECTOR

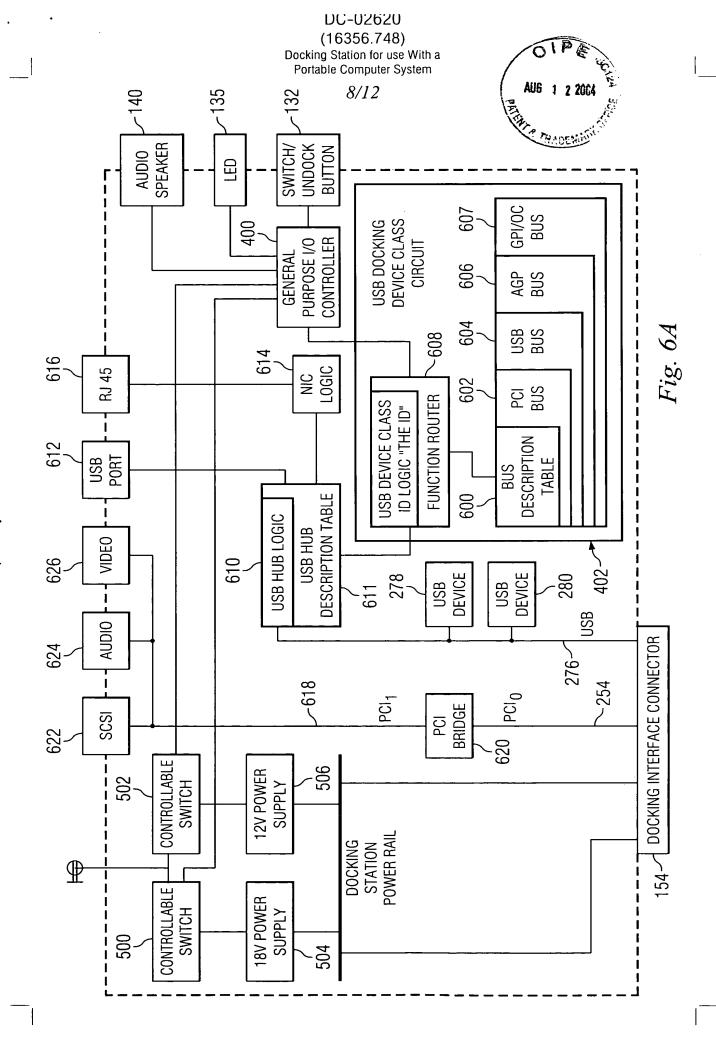
Fig. 7

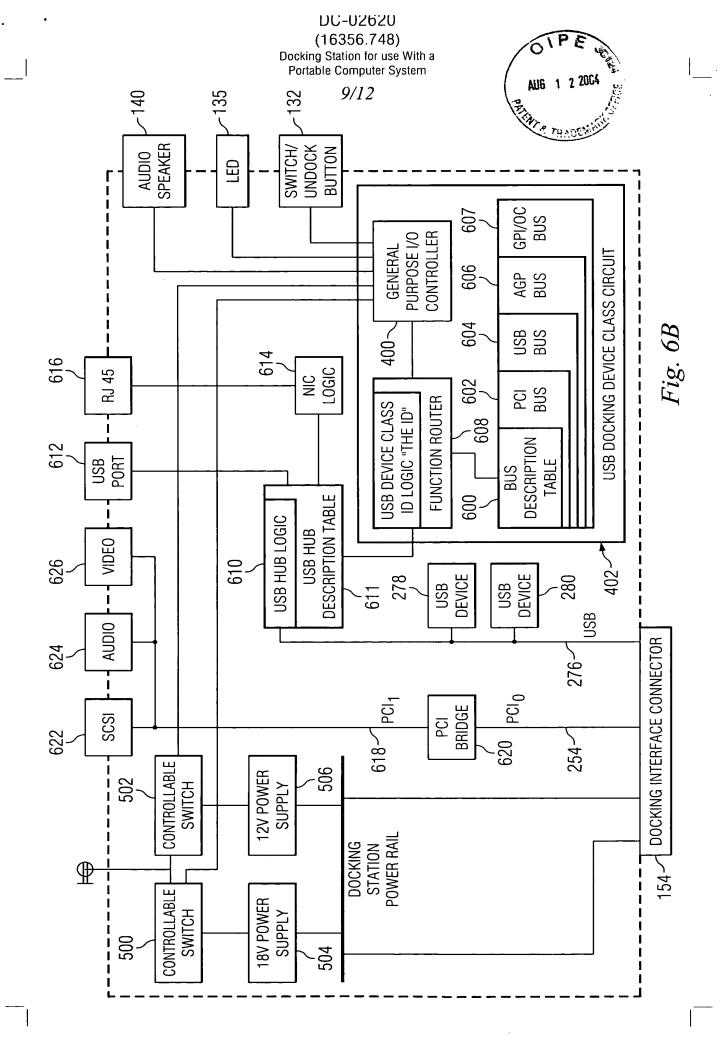


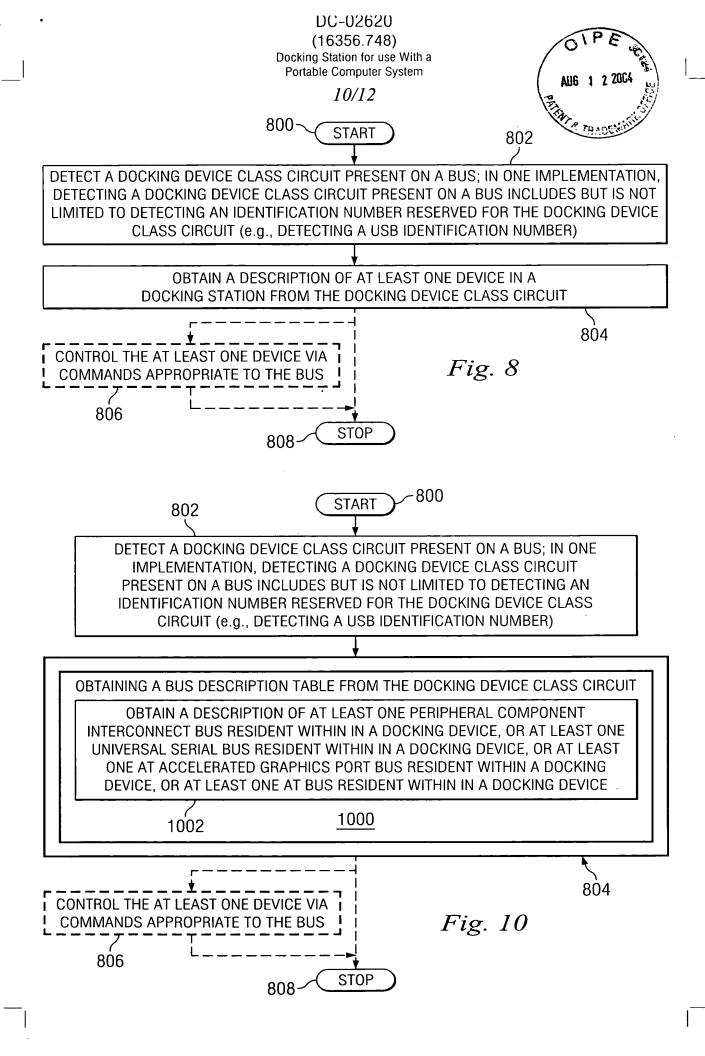














802

DC-02620 (16356.748) Docking Station for use With a Portable Computer System

11/12

800 START

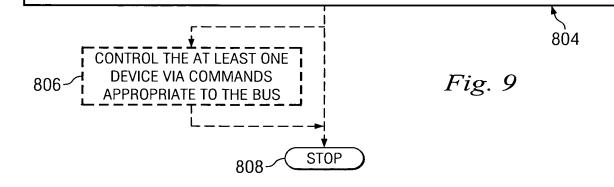
DETECT A DOCKING DEVICE CLASS CIRCUIT PRESENT ON A BUS; IN ONE IMPLEMENTATION, DETECTING A DOCKING DEVICE CLASS CIRCUIT PRESENT ON A BUS INCLUDES BUT IS NOT LIMITED TO DETECTING AN IDENTIFICATION NUMBER RESERVED FOR THE DOCKING DEVICE CLASS CIRCUIT (e.g., DETECTING A USB IDENTIFICATION NUMBER)

OBTAIN A LIST OF DEVICES UNDER THE CONTROL
OF THE DOCKING DEVICE CLASS CIRCUIT

OBTAIN A LIST OF DEVICES UNDER THE CONTROL OF A GENERAL PURPOSE I/O DEVICE UNDER THE CONTROL OF THE DOCKING DEVICE CLASS CIRCUIT

902 900 904

OPERATING SYSTEM OF A PORTABLE COMPUTER OBTAINS DRIVER CODE APPROPRIATE TO THE AT LEAST ONE DEVICE; IN ONE IMPLEMENTATION, THIS DRIVER CODE IS OBTAINED FROM STORAGE ON-BOARD THE PORTABLE COMPUTER SYSTEM, WHILE IN ANOTHER IMPLEMENTATION, THIS DRIVER CODE IS OBTAINED FROM OR THROUGH THE DEVICE CLASS DOCKING CIRCUIT





DC-02620 (16356.748) Docking Station for use With a Portable Computer System

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